SIEMENS

15”/17” CCTV Colour Monitor

User Manual

Fire & Security Products

Siemens Building Technologies

Liefermöglichkeiten und technische Änderungen vorbehalten.
Data and design subject to change without notice. / Supply subject to availability.
© 2004 Copyright by
Siemens Building Technologies AG

Wir behalten uns alle Rechte an diesem Dokument und an dem in ihm dargestellten Gegenstand vor. Der Empfänger erkennt diese Rechte an und wird dieses Dokument nicht ohne unsere vorherige schriftliche Zustimmung ganz oder teilweise Dritten zugänglich machen oder außerhalb des Zweckes verwenden, zu dem es ihm übergeben worden ist.

We reserve all rights to this document and to the subject thereof. By accepting the document, the recipient acknowledges these rights and undertakes not to publish the document or the subject thereof in full or in part, and will not make these available to any third party without our prior express written authorization, and will not use these for any purpose other than that for which they were delivered to him.

Contents

FCC Requirements 5

1 Product Safety Precautions 6

2 Introduction 7

3 Hardware Installation 8
3.1 Unpacking 8
3.2 Installation 8
3.2.1 Hardware Installation 8
3.2.2 Connection 9

4 The Display Timing of PC Mode 11
4.1 Applicable video timing for PC- analog video 11

5 Monitor Buttons 12
5.1 Definition of the buttons 12
5.2 Screen Adjustment Operation Procedure 13

6 Adjusting the OSD Screen (DVI and PC) 14
6.1 OSD Main Menu 14
6.2 MAIN ADJUST 14
6.3 AUTO ADJUST (does not support DVI source) 14
6.4 COLOR ADJUST 15
6.5 IMAGE ADJUST (does not support DVI source) 15
6.6 PIP (Picture In Picture) SETTING 15
6.7 SETUP MENU 15
6.8 INFORMATION 16
6.9 RECALL 16

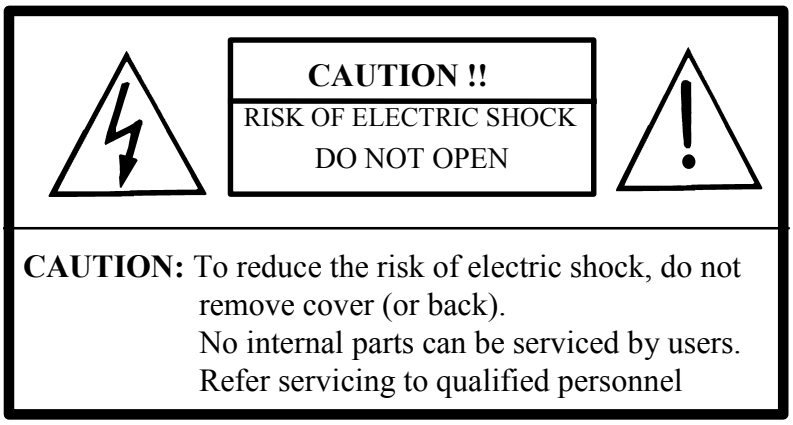
7 Adjusting the OSD Screen (AV Equipment) 17
7.1 OSD Main Menu 17
7.2 MAIN ADJUST 17
7.3 COLOR ADJUST 17
7.4 SCAN SETTING 18
7.5 MOTION SETTING 18
7.6 VOV (Video On Video) SETTING 18
7.7 SETUP MENU 18
7.8 RECALL 18

8 Troubleshooting Tips 19

9 Specifications 20

10 Appendix 21
10.1 Safety Guidelines 21
10.2 Important notice concerning power cord selection 21
10.2.1 Compliance Information for the U.S.A. 23
10.2.2 FCC Warning 23
10.2.3 CE Conformity for Europe 23
10.2.4 EMC - Declaration Of Conformity 24

Caution and Warning


CAUTION !!
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: To reduce the risk of electric shock, do not remove cover (or back).
No internal parts can be serviced by users.
Refer servicing to qualified personnel

Warning

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.

“HIGH VOLTAGE EXISTS ON THE BACK LIGHT POWER LEAD OF THIS MONITOR. BEFORE SERVICING, DETERMINE THE PRESENCE OF HIGH VOLTAGE BY CONNECTING THE H.V. METER BETWEEN THE BACK LIGHT POWER LEAD AND CHASSIS ONLY.“

FCC Requirements

This device complies with Part 15 of the FCC Rules and Regulations. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must tolerate any interference encountered, including interference that may cause improper operation.

The equipment has been tested and found to comply with the requirements stipulated in Part 15 of FCC regulations for a Class B digital device. These requirements are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in strict compliance with the instructions, may disrupt radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause detrimental interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by taking one or more of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and the receiver.
- Connecting the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consulting the dealer or an experienced radio/TV technician for help.

Shielded interconnected cables and shielded power cords must be used with this equipment to ensure compliance with the pertinent RFD emission limits governing this device.

Changes or modifications not expressly approved by the manufacturer could void the user's right to operate the equipment.

Notice of Compliance with Canadian Interference-causing Equipment Regulations

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de classe B satisfait toutes les exigences des réglementations canadiennes inhérentes aux équipements générant des interférences.

1 Product Safety Precautions

Follow all warnings and instructions marked on the product.

Do not use this product near water.

This display should be installed on a stable horizontal base.

When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners.

Do not expose this monitor to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.

Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the monitor from overheating. Do not block ventilation slots and openings with objects or install the monitor in a place where ventilation may be obstructed.

Do not install this monitor near a motor or transformer where strong magnetism is generated. Images on the monitor will be distorted and the color irregular.
Do not allow metal pieces or objects of any kind fall into the monitor through ventilation holes.

Do not attempt to service this unit yourself. Removal of the monitor cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel in the event that:

1. Liquid is spilled into the product or the product is exposed to rain or water.
2. The product does not operate normally when the operating instructions are followed.
3. The product has been dropped or the cabinet has been damaged.
4. The product exhibits a distinct change in performance, indicating a need for service.
5. The power cord or plug is frayed or damaged.

2 Introduction

Welcome to a fantastic new technology whichwill completely change the way you view monitors. The following sections describe just a few of the major advantages of this LCD monitor. You'll discover more of its wonderful features as you use it.

1. Low radiation and reduced flickering compared to the traditional CRT monitors minimize hazards to your health.
2. Its compact size requires only minimal desktop space. This makes transportation easier and, combined with the aforementioned properties, facilitates use in nearly any environment.
3. The LCD monitor uses little power, thus reducing power bills and protecting natural resources.
4. The special design of the LCD cabinet is both attractive and ergonomic.
5. The LCD monitor is used in the same way as the CRT monitor. There is no need to change the hardware of your computer: just plug it in and it is ready for use.
6. This LCD monitor can accept PC-analog, PC-DVI, composite and S-video signals.
7. The composite video input and S-video ports accept different signal sources, e.g. VCR, DVD player, etc.
8. The unit is equipped with VESA wall and RACK mounting functions.
9. This monitor supports some special functions for video/audio application: PIP (Picture In Picture), VOV (Video On Video), 3D comb filter, de-interlace, overscan, auto impedance switch for looping video connection and looping audio connection.

3 Hardware Installation

This chapter will guide you through the correct installation procedures for the LCD monitor.

3.1 Unpacking

When you unpack your LCD monitor, make sure the following items are included in the box and are in good condition. If you find that any of these items are damaged or missing, please contact your dealer immediately.

- One LCD monitor mounted on its stand
- AC power cord
- This user manual
- PC DVI-A to D-sub 15-pin cable

3.2 Installation

This LCD monitor DOES NOT require any special drivers.
For PC system applications with a DVI-D & D-sub analog input source, the necessary drivers are supplied by the video card manufacturer and may be found on the diskettes supplied with the video card that came with your computer. Windows 98/XP/2000 drivers for both the display and the video card are supplied on the Windows 98/XP/2000 CD or diskettes. Unfortunately, Microsoft did not provide a complete listing of the monitors at the time of the initial retail release. You may use the standard SXGA (1280X1024) for 17” LCD monitors and XGA (1024x768) for 15” LCD monitors as the monitor type. The video card must also be set up correctly in Windows 98/XP/2000. Make sure that the video output of the VGA card is listed in Section 6.1 or check your video card manual or Windows 98/XP/2000 “Read Me” file for further information on the video card. After these issues have been resolved, continue the setup procedure as described below.

3.2.1 Hardware Installation

1. Before connecting any devices, please make sure that your monitor and all other equipment are turned off.
2. Place the monitor on a stable horizontal surface such as a table or a desk.
3. Attach the power cable to the monitor and then to a power outlet.
4. The LCD monitor comes with two video cables (D-sub 15-pin to DVI-I 29-PIN and DVI-D 24-pin to 24-pin) for computer video applications; one each for analog and digital signals.

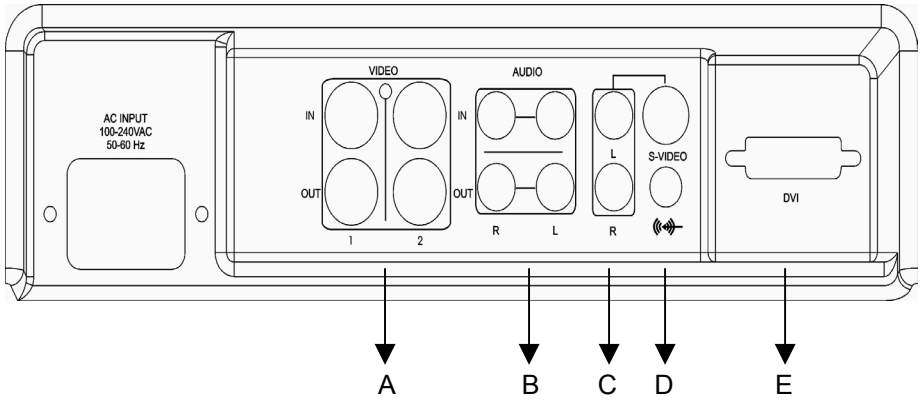
Example:

a). Analog signal (D-sub 15-pin to DVI-A 29-pin cable):
Connect the DVI-A connector to the DVI input at the back of the monitor, then connect the D-sub 15-pin connector at the back of computer.

b). Digital signal (DVI-D 24-pin to DVI-D 24-pin cable)
Connect one end of the signal cable to the DVI input on the rear of the monitor, and connect the other end to the DVI connector to the rear of computer.

5. Tighten the screws of the monitor cable until the connectors are fastened securely.
6. Alternatively, connect the composite signal (video, S-video) cable from the back of the video unit to the back of the monitor.
7. Switch on the power supply to the computer system or AV equipment, then to the LCD monitor.

3.2.2 Connection



A. Composite (AV) video input and output:

There are two sets of AV video inputs and outputs that can be used. This monitor also suipports the “auto looping” function, permitting the connection of another monitor from the output connectors.

1 is for the AV 1 video connector, 2 is for the AV 2 video connector.

IN is for the AV video input. Connect the “yellow” (video) connector from the AV equipment to the monitor.

OUT is for the AV video output. Connect the “yellow” (video) connector from this monitor to the input connector of another equipment.

B. Composite (AV) audio input and output:

R is for the right channel (red) of the audio connector, L is for the left channel (white) of the audio connector.

IN is for the AV audio input. Connect the audio connector from the AV equipment to the monitor.

OUT is for the AV audio output. Connect the audio connector from the monitor to the input connector of another AV equipment.

There are some connection methods for stereo/mono and input/output applications. Please refer to below application table.

	Mono	Mono	Stereo	Stereo
R-IN	AV1 R (Red)	AV1 L (White)	AV1 R (Red)	AV2 R (Red)
L-IN	AV2 R (Red)	AV2 L (White)	AV1 L (White)	AV2 L (White)
R-OUT	AV1 R (Red)	AV1 L (White)	AV1 R (Red)	AV2 R (Red)
L-OUT	AV2 R (Red)	AV2 L (White)	AV1 L (White)	AV2 L (White)

Mono sound application:

1. Input: Connect one of the AV1/AV2 audio cables (R or L) from the AV equipment to R-IN or L-IN.
2. Output: Connect from R-OUT or L-OUT to the input of AV equipment.

NOTE:

If you connect the audio cables of AV1 and AV2 to R-IN and L-IN simultaneously, the sound of AV1 and AV2 will be transmitted to the speakers at the same time.

Stereo sound application:

1. Input: Connect only one set of AV audio cables to R-IN and L-IN.
2. Output: Connect from R-OUT and L-OUT to the input of the AV equipment.

C. S-video input:

1. Connect the S-video (4-pin DIN) connector (labeled “S”) from the AV equipment to the monitor.
2. Connect the red (R) and white (L) audio jacks from the AV equipment to the monitor.

D. PC Audio line input

E. DVI connector

4 The Display Timing of PC Mode

4.1 Applicable video timing for PC- analog video

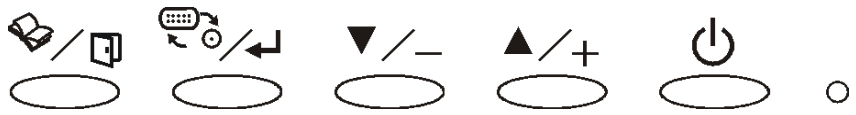
The following table lists the better display quality modes for analog signal (PC) supported by this LCD monitor. If other video modes are input, the monitor will stop working or display unsatisfactory picture quality.

VESA MODES					
Mode	**Resolution**	**Total**	**Horizontal** **Nominal Frequency +/- 0.5 kHz**	**Vertical** **Nominal Frequency +/- 1 Hz**	**Nominal Pixel Clock (MHz)**
DOS	720x400@70 Hz	900x449	31.469	70.087	28.322
VGA	640x480@60 Hz	800x525	31.469	59.940	25.175
	640x480@72 Hz	832x520	37.861	72.809	31.500
	640x480@75 Hz	840x500	37.500	75.000	31.500
SVGA	800x600@56 Hz	1024x625	35.156	56.250	36.000
	800x600@60 Hz	1056x628	37.879	60.017	40.000
	800x600@72 Hz	1040x666	48.077	72.188	50.000
	800x600@75 Hz	1056x625	46.875	75.000	49.500
XGA	1024x768@60 Hz	1344x804	48.363	60.004	65.000
	1024x768@70 Hz	1328x806	56.476	70.069	75.000
	1024x768@75 Hz	1312x800	60.023	75.029	78.750
**** SXGA**	1152x864@75 Hz	1600x900	67.500	75.000	108.00
	1280x1024@60 Hz	1688x1066	63.981	60.020	108.00
	1280x1024@75 Hz	1688x1066	79.976	75.025	135.00
IBM MODES					
EGA	640x350@70 Hz	800x449	31.469	70.086	25.175
DOS	720x400@70 Hz	900x449	31.469	70.087	28.322
VGA	640x480@60 Hz	800x525	31.469	59.940	25.175
XGA	1024x768@72 Hz	1304x798	57.515	72.1	75.000
MAC MODES					
VGA	640x480@60 Hz	800x525	31.469	59.940	25.175
SVGA	832x624@75 Hz	1152x667	49.725	74.551	57.283
XGA	1024x768@75 Hz	1328x804	60.241	74.927	80.000

**Note: SXGA modes are not supported by the 15” LCD monitor.

5 Monitor Buttons

5.1 Definition of the buttons



Menu/Exit Source/Enter Down/Decrease Up/Increase Power Switch Power LED

1) Menu/Exit:
   Enters the OSD adjustment main menu. This button is also used to return to the previous menu or submenusubmenu.
   This button is also used to exit the OSD main menu when the main menu is displayed on the screen.

2) Source/Enter:
   This button is used to select the input source when the OSD is off. The input changes must be made in the following order: AV1, AV2, S-VIDEO, DVI, PC, AV1….
   This button is also used to confirm the current selection when the OSD is on.

3) ▼/- (Adjust down)
   This button is used to scroll through the screen containing items to be adjusted, or to decrease the value of the item to be adjusted.

4) ▲/+ (Adjust up)
   This button is used to scroll through the screen containing items to be adjusted, or to increase the value of the item to be adjusted.

5) Power Switch
   Press once to turn the power on, and press again to turn the power off.

6) Power LED
   If the LED indicator lamp is green, the unit is in normal operating mode. When DVI and PC input source applications are being used, the LED indicator lamp will change to orange when it is in power-saving mode.

5.2 Screen Adjustment Operation Procedure

1) This screen is used for making adjustments.
   In normal operating mode, press the Menu/Exit button to enter the main menu, which contains adjustment options.
2) Select the option you want.
   Use either of the two ▲/+,▼/- buttons to move the cursor up and down to select your desired option. After selecting your desired option, press the Source/Enter button to enter the submenu for adjusting items.
3) Change the value you wish to adjust.
   After entering the submenu, use the ADJUST ▲/+,▼/- buttons to increase or decrease the value to be adjusted.
4) Save file
   After you have made the adjustment, the volume or setting will be automatically saved to the monitor's memory.
5) Exit the main menu
   Press the “Menu/Exit” button once to exit the main menu. If the Menu/Exit button is not pressed, the monitor will automatically exit the adjusting screen after a preset time (in seconds).

6 Adjusting the OSD Screen (DVI and PC)

6.1 OSD Main Menu

After the Menu/Exit button is pressed for the first time, the main menu will appear on screen. The main menu is composed of text and graphics. The OSD shows different options, and the selected option is highlighted in yellow. Use the ▲/+ and ▼/- buttons to move the yellow bar to select the option. When the yellow bar reaches the desired option, press the Source/Enter button to select it. Press the Menu/Exit button once to exit this menu. The contents of the main menu are shown in Figure 6-1.

NOTE:
Auto Adjust, Sharpness and Image Adjust functions do not support the DVI input source.

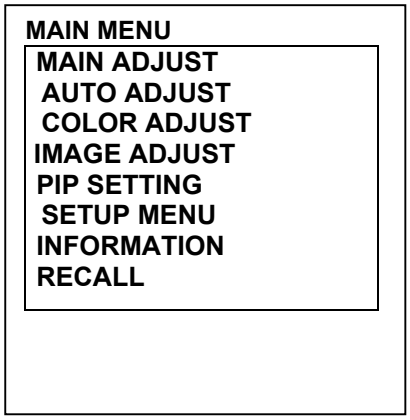


Figure 6-1

6.2 MAIN ADJUST

There are four items on this submenu: BRIGHTNESS, CONTRAST, SHARPNESS and VOLUME.
BRIGHTNESS: This is used to adjust the brightness of the screen.
CONTRAST: This is used to adjust the image contrast.
SHARPNESS: This is used to adjust the focus of the screen image (does not support DVI source).
VOLUME: This is used to adjust the sound volume.

6.3 AUTO ADJUST (does not support DVI source)

This is used for automatic configuration of the phase, clock, vertical and horizontal positioning of image.

6.4 COLOR ADJUST

The option “Color Adjust” in the main menu contains a submenu of options, which is used to set the color of the screen. The submenu includes 3 color settings: “9300K”, “6500K” and “User Color” (including RED, GREEN and BLUE).
The option “9300K” adds blue to the screen image for cooler white.
The option “6500K” adds red to the screen image for warmer white and richer red.
The option “RED” is used to increase the red color.
The option “GREEN” is used to increase the green color.
The option “BLUE” is used to increase the blue color.

6.5 IMAGE ADJUST (does not support DVI source)

This contains a submenu of options used to adjust the screen position and video quality. The contents of the submenu include 4 options: “H-Position”, “V-Position”, “Phase” and “Clock”.
The option “H-POSITION” is used to adjust the horizontal position of the image.
The option “V-POSITION” is used to adjust the vertical position of the image.
The option “Phase” is used to reduce horizontal stripingin the screen image.
The option “Clock” is used to reduce vertical striping in the screen image.

6.6 PIP (Picture In Picture) SETTING

The option “PIP setting” contains a submenu of options for adjusting the PIP setting. The submenu includes five options: “PIP”, “PIP source”, “PIP H-position”, “PIP V-position” and “Ratio”. The main image source of the PIP function is the DVI or PC.
The option “PIP” is used to enable or disable PIP function.
The option “PIP source” is used to select the source signal between AV1, AV2, and S-VIDEO.
The option “PIP H-position” is used to adjust the PIP horizontal position of the image.
The option “PIP V-position” is used to adjust the PIP vertical position of the image.
The option “Ratio” is used to select the subvideo size ratio 1, 2, 3.

6.7 SETUP MENU

The “Setup” menu includes 4 additional items for providing more options for OSD setup and other accessory items. The submenu contains 4 options: “Select Language”, “OSD H-Position”, “OSD V-Position” and “OSD Timeout”.
”Select Language” can be used to select from the following eight languages: English, French, German, Spanish, Italian, Polish, Czech and Swedish.
“OSD H-Position” is used to set up the horizontal position of the OSD menu.
“OSD V-Position” is used to set up the vertical position of the OSD menu.
“OSD Timeout” is used to set the timeout of the OSD Menu. There are seven options for the automatic timeout: 5, 10, 15, 20, 30, 45 and 60 seconds.

6.8 INFORMATION

The “INFORMATION” menu provides the user with detailed information regarding the version, resolution, H-FREQ and V-FREQ.

6.9 RECALL

The option “Memory Recall” returns the monitor to its factory default settings.

NOTE:
If there is no operation or automatic adjustment within the set time, the screen will be closed automatically.

7 Adjusting the OSD Screen (AV Equipment)

7.1 OSD Main Menu

After the Menu/Exit button is pressed initially, the main menu will appear on the screen. The main menu is composed of text and graphics. The OSD shows different options, and the selected option is highlighted in yellow. Use the ▲/+ and ▼/- buttons to move the yellow bar to select the option. When the yellow bar reaches the desired option, press the Source/Enter button to select it. Press the Menu/Exit button once to exit this menu. The contents of the main menu are shown in Figure 7-1.

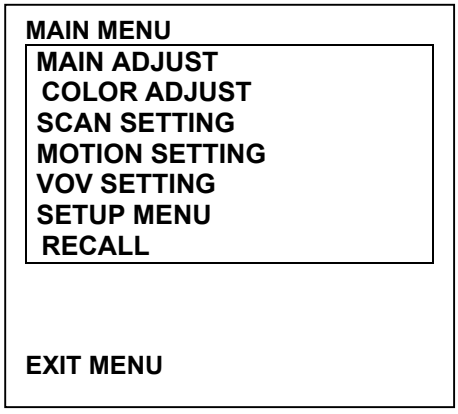


Figure 7-1

7.2 MAIN ADJUST

There are seven items on this submenu: BRIGHTNESS, CONTRAST, SHARPNESS, SATURATION, TINT, 3D COMB and VOLUME.
BRIGHTNESS: This is used to set the brightness of the screen.
CONTRAST: This is used to adjust the image contrast.
SHARPNESS: This is used to adjust the clarity of the screen image.
SATURATION: This is used to adjust the color density.
TINT: This is used to adjust the color tint (NTSC only).
3D COMB: This is used to enable or disable the 3D comb filter function. (NTSC only)
VOLUME: This is used to adjust the sound volume.

7.3 COLOR ADJUST

The option “Color Adjust” in the main menu contains a submenu of options, which is used to set the color of the screen. The submenu includes three color settings: “9300K”, “6500K” and “User Color” (including RED, GREEN and BLUE).

Select the option “9300K” to add blue to the screen image for cooler white.
Select the option “6500K” to add red to the screen image for warmer white and richer red.
The option “RED” is used to increase the red color.
The option “GREEN” is used to increase the green color.
The option “BLUE” is used to increase the blue color.

7.4 SCAN SETTING

There are two screen size settings on this function: OVER and UNDER.
"Over" is used to expand the screen size to 5% larger than the normal screen.
"Under" is used to select the normal screen size.

7.5 MOTION SETTING

There are two options for this setting: STILL and MOTION.
The option "Still" is used to disable the de-interlace function.
The option "Motion" is used to enable the de-interlace function.

7.6 VOV (Video On Video) SETTING

The option "VOV setting" in the main menu contains a submenu of options for adjusting the VOV setting. The submenu includes six options: "VOV", "SUB SOURCE SELECT", "SUB H-POSITION", "SUB V-POSITION", "RATIO" and "EXCHANGE".
The option "VOV " is used to enable the VOV function.
The option "Sub Source Select" is used to select the source signal between AV1, AV2, and S-VIDEO.
The option "Sub H-Position" is used to vary the horizontal position of the sub video.
The option "Sub V-Position" is used to vary the vertical position of the sub video.
The option "Ratio" is used to select the sub video size ratio 1,2, 3.
The option "Exchange" is used to exchange the video source between main video and sub video source directly.

7.7 SETUP MENU

The "Setup" menu includes 4 additional items for providing more options for OSD setup and other accessory items. The submenu contains 4 options: "Select Language", "OSD H-Position", "OSD V-Position" and "OSD Timeout".
"Select Language" can be used to select from the following eight languages: English, French, German, Spanish, Italian, Polish, Czech and Swedish.
"OSD H-Position" is used to set up the horizontal position of the OSD menu.
"OSD V-Position" is used to set up the vertical position of the OSD menu.
"OSD Timeout" is used to set the timeout of the OSD Menu. There are seven options for the automatic timeout: 5, 10, 15, 20, 30, 45 and 60 seconds.

7.8 RECALL

The option "Recall" returns the monitor to its factory default settings.

NOTE:

If there is no operation or automatic adjustment during the setting interval, the screen will be closed automatically.

8 Troubleshooting Tips

In the event that you experience trouble with your monitor, check the following items before contacting the dealer from whom the monitor was purchased. The most common problems usually involve an incorrect connection from the video card or AV equipment to the monitor. We recommend that you also consult your user manuals for your video card or AV equipment during the troubleshooting procedure. Do not exceed the maximum refresh rate recommended for the monitor.

Problem	Troubleshooting Tip
No image on display screen	1. Check that the power cord of the computer or AV equipment has been connected securely to the wall outlet or grounded extension cable or strip. 2. Check that the monitor power switch is “on” and the LED on the front of the monitor is lit. 3. Check that the video (signal) cable from the computer or AV equipment has been connected correctly and securely. 4. Check to ensure that the video card is firmly seated in the card slot of of the computer’s motherboard. 5. Check that the video input from the video card falls within the timing range (listed in the table of section 4) of the monitor.
Abnormal image.	1. Check to ensure that the video input from the video card falls within the timing range (listed in the table of section 4) of the monitor. 2. Check to ensure that the video (signal) cable from the computer or AV equipment has been securely and correctly connected to the connector at the back of the monitor.
Colors of image on screen are abnormal	1. Check to ensure that the video (signal) cable from the monitor has been securely and correctly connected to the DVI, AV, and S-video connector at the back of the computer.
Disturbances on Screen	1. OSD adjustment is incorrect. Please consult section 5 for OSD screen adjustment procedures.
Can hear sound but no picture is visible	1. Make sure that both video inputs (AV/ S-video and RGB) are correctly connected.
Can see picture but no sound is audible	1. Make sure that both audio inputs are connected properly. The audio input connectors have AV/ S-video/PC line in. 2. Check to see whether the volume is turned all the way down.

9 Specifications

Model No.	CMTC1515	CMTC1715
LCD panel type	15.0" TFT LCD	17.0" TFT LCD
Pixel dimension (HxV)	0.297 mm x 0.297 mm	0.264 mm x 0.264 mm
Resolution (Max.)	XGA 1024 x 768	SXGA 1280 x 1024
LCD display color	16.7M colors	16.7M colors
Frequency Range of analog input H Sync: V Sync:	 31.5 kHz ~ 60 kHz 56.0 Hz ~ 75.0 Hz	 31.5 kHz ~ 80 kHz 56.0 Hz ~ 75.0 Hz
Input video signal	1. Video analog RGB 0.7 Vp-p. 75 ohms sync. TTL Level, positive/negative, separate sync. 2. DVI : REV1.0 digital : Single T.M.D.S (Transition Minimized Differential Signaling) 3. AV/S-VIDEO: 1Vp-p. (0.7V video+ 0.3V sync.), 75 ohms.	
Input terminals	1. Computer signal: DVI-I 29-pin x 1 2. Computer audio: Mini stereo jack (Ø 3.5mm) x 1 3. Video image : BNC x 2 4. S-video image : x 1 5. Audio : RCA jack x 4 6. AC power input x 1	
Output video	Two BNC connectors for video loop-through	
Output audio	Two RCA jacks	
Regulation	CUL, TUV/GS, FCC-B, CE	
Power Management	Yes	
AC power	AC 100~240V, 50/60 Hz	
Temperature	Operation: 5° ~ 35°C , Storage: -25° ~ 60°C	
Plug & Play	DDC 2B	
Tilt	-5° ~ +20°	
Dimensions (HxLxW)	335x349x160 mm	380x374x160 mm
Weight (monitor only)	6.0 kg	8.5 kg

10 Appendix

10.1 Safety Guidelines

WARNING	This device must be operated with the original power supply, part number: LI SHIN 0219B1280 or LINEARITY LAD10PFKB6.

CAUTION	The socket outlet should be installed near the equipment and should be easily accessible.

CAUTION	Use a power cable that is properly grounded. Always use the appropriate AC cord that is certified for the individual country. Some examples are listed below: USA……..UL Switzerland…….SEV Canada……CSA Britain……..BASE/BS Germany…..DE Japan……...Electric Appliance Control Act.

10.2 Important notice concerning power cord selection

The power cord set for this unit has been enclosed and has been selected according to the country of destination. It must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.
The female receptacle of the cord set must meet IEC-60320 requirements and may look like this (Figure A1 below):

Figure A1

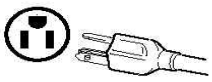


Figure A2

FOR THE UNITED STATES AND CANADA

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For units which are mounted on a desk or table, SVT or SJT type cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Code Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG	10 Amps
	16 AWG	12 Amps
	14 AWG	12 Amps
SVT	18 AWG	10 Amps
	17 AWG	12 Amps

FOR EUROPEAN COUNTRIES

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
IF THE FITTED MOLDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET, THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE PLUG WHICH HAS BEEN CUT OFF IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below. In case of doubt, please consult a qualified electrician.

WARNING THIS APPLIANCE MUST BE (EARTHED (GROUNDED).

IMPORTANT: The wires in this mains lead are colored in accordance with the following code:

Green-and-Yellow : Ground (Earth)
Blue : Neutral
Brown : Live

If the colored wires of the mains lead of this appliance do not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The wire which is colored GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol or colored GREEN or GREEN-AND-YELLOW.

The wire which is colored BLUE must be connected to the terminal in the plug which is marked with the letter N or colored BLACK. The wire which is colored BROWN must be connected to the terminal in the plug which is marked with the letter L or colored RED.

If you have any questions concerning the proper power cord to use, please consult the dealer from whom you purchased the product.

10.2.1 Compliance Information for the U.S.A.

The equipment has been tested and found to comply with the requirements for a Class B digital device, pursuant to part 15 of the FCC Rules. These requirements are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by taking one or more of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and receiver.
- Connecting the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consulting the dealer or an experienced radio/TV technician for help.

10.2.2 FCC Warning

To ensure continued FCC compliance, the user must use a grounded power supply cord and the shielded video interface cable with bonded ferrite cores provided. If a BNC cable is going to be used, use only a shielded BNC (5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

10.2.3 CE Conformity for Europe

CE

The device complies with the requirements of the ECC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility", and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to "Safety".

10.2.4 EMC - Declaration Of Conformity

For the equipment : 15/17 inch CCTV color monitor
Model designation/Trade name : CMTC1515/CMTC1715

it is herewith confirmed that this equipment complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (89/336/EEC, amended by 92/31/EEC). For the evaluation regarding the Electromagnetic Compatibility (89/336/EEC, amended by 92/31/EEC and 93/68/EEC), the following standards are applied :

RFI Emission:

EN55022 : 1998 Class B: Generic emission standard
EN61000-3-2 : 1995 Class D: Limits for harmonic current emission
Amendment 1: 1998
Amendment 2: 1998
EN61000-3-3: 1995 : Limitation of voltage fluctuation and flicker in low voltage supply systems.

Immunity :

EN55024: 1998 Generic immunity standards.

The following manufacturer/importer or authorized representative established within the EU is responsible for this declaration.

Company name: Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
Address: D-76181 Karlsruhe

Issued by:
Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
D-76181 Karlsruhe

www.sbt.siemens.com/FSP

© 2004 Copyright by
Siemens Building Technologies AG

Data and design subject to change without notice.Supply subject to availability.Printed in the Federal Republic of Germany on environment-friendly chlorine-free paper.

Part no. **A24205-A336-S510**
Edition 06.2004